AMTRAK

Maintenance Analysis Program

WMS Work Order: 2256919

P32 92-DAY PM INSPECTION

From Work Order:

WMS Template ID: 58537

Print Date: 8/23/2010

W/O Type: Preventive Maint.	**Equip Class:**
Maint Type: Quarterly Inspection-Loco	**Equip Type:** P32-8

P32-8

Unit:	W/O Ceate Date:	W/O Due Date:	W/O Status Date:	W/O Status By:	W/O Status:
500	5/16/10 12:43 am	08/14/2010	8/4/10 8:18 pm	SIMP3519	Closed

TASK # 1 WHEELHOUSE: INSPECT WHEELS

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 INSPECT WHEELS, COUPLERS, PLOW & TMs

Signature(s):	Date:	√
		Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBHWHLHSE - INSPECT WHEELS, COUPLERS, PLOW

10.00	Wheel Inspection, Gauging and Reporting per procedure DXBH-02-0004	
20.00	Inspect Traction Motors and Gear Cases per procedure DXBH-02-0007	
30.00	Inspect Plow Height and Brake Hoses per procedure DXBH-01-0003	
40.00	Coupler Height Inspection per procedure DXBH-03-0002	
50.00	Periodic Coupler Inspection and Gauging per procedure DXBH-03-0004	
60.00	Daily Coupler Inspection per procedure DXBH-03-0001	
70.00	Record any defects on MAP-9 and attach to this work order. Doocument in WMS all failure modes and unacceptable conditions identified.	

Note - If you have any questions or concerns regarding the contents of this Work Order, please contact the Fleet Manager: Mike Scaringe ATS 825-0230

TASK # 2 SPOT #5-1: INBOUND INSPECTION

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 LOCOMOTIVE TEST READINGS

Signature(s):	Date:	√
		Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBDQIOTEST - INBOUND/OUTBOUND TEST READINGS

10.00 Perform Self Load Test and Record INBOUND Test Readings per procedure DXBD-04-0020 below:

20.00

	UNITS	INBOUND	OUTBOUND
LOAD REGULATOR	[%]		
OIL TEMPERATURE	[DEG F]		
WATER TEMPERATURE	[DEG F]		
ENGINE SPEED	[RPM]		
BATTERY VOLTAGE	[VOLTS]		
GROSS HORSE POWER	[HP]		
THROTTLE POSITION	[VOLTS]		
ALTERNATOR VOLTAGE (P42)	[VOLTS]		
ALTERNATOR CURRENT	[AMPS]		

Note - If you have any questions or concerns regarding the contents of this Work Order, please contact the Fleet Manager: ***Mike Scaringe ATS 825-0230***

TASK # 2 SPOT #5-1: INBOUND INSPECTION

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 LOCOMOTIVE TEST READINGS

Signature(s): | Date: | √ Initial/Signature/Check

Foreman Signatures required only once for each job.

30.00

	UNITS	INBOUND	OUTBOUND
1001 OUTSIDE AIR TEMPERATURE	[DEG F]		
2003 INPUT FOR TRACTION	[HP]		
2004 AUXILLARY LOAD	[HP]		
2008 GOVERNOR PISTON GAP	[INCHES]		
2012 MAIN ALT. GND LEAKAGE	[mA]		
2015 AIR COMPRESSOR SPEED	[RPM]		
2016 TM#1 CURRENT	[A]		
2017 TM #2 CURRENT	[A]		
2018 TM #3 CURRENT	[A]		
2019 TM #4 CURRENT	[A]		
2031 AUX ALT. FIELD	[A]		
2032 HP DETERIORATION	[%]		
3001 INTAKE AIR MANIFOLD	[PSI]		
3002 BAROMETER	[PSI]		
3007 COP	[PSI]		
2013 GRID BLOWER #1	[RPM]		
2014 GRID BLOWER #2	[RPM]		

40.00

TURBO AIR PRESSURE	[PSI]		
FUEL OIL PRESSURE	[PSI]		
LUBE OIL PRESSURE	[PSI]		

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TASK # 2 SPOT #5-1: INBOUND INSPECTION

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 LOCOMOTIVE TEST READINGS

Signature(s): | Date: | √ Initial/Signature/ Check

Foreman Signatures required only once for each job.

50.00 HEP Operational Test

A) Set up HEP Normal:

B) Record the following Monitor Parameters While in HEP Normal Mode:

	INBOUND	OUTBOUND
2005 Engine Speed (900+5-6) RPM		
2177 HEP Voltage (480 +/-24)		
5011 HEP Alternator Field AMPS		
5012 HEP Phase A to ground Volts		
5013 HEP Phase B to ground Volts		
5014 HEP Phase C to ground Volts		
5015 HEP Phase A Current AMPS		
5016 HEP Phase B Current AMPS		
5017 HEP Phase C Current AMPS		
5018 HEP Output (8.0 +/-.4) V/Hz		

60.00 C) Set up For HEP Standby:

D) Record the following Parameters While in HEP Standby Mode

	INBOUND	OUTBOUND
2005 Engine Speed (900+5-6) RPM		
2177 HEP Voltage (480 +/-24)		
5011 HEP Alternator Field AMPS		
5012 HEP Phase A to ground Volts		
5013 HEP Phase B to ground Volts		
5014 HEP Phase C to ground Volts		
5015 HEP Phase A Current AMPS		
5016 HEP Phase B Current AMPS		
5017 HEP Phase C Current AMPS		
5018 HEP Output (8.0 +/-.4) V/Hz		

*Phase to ground volts should be 277 +/-14

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TASK # 2 SPOT #5-1: INBOUND INSPECTION

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3619	CSX	08/04/2010	Closed

Job # 2 INBOUND: P32 92D ELECTRICAL INSPECTION

Signature(s):	Date:	√
		Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBHQELINB - P32 92D ELECT. INBOUND INSP

10.00	Record INBOUND Parameters	
15.00	Check for correct Panel #'s software versions	
18.00	Check for Control Circuit Grounds with Test Light per procedure DXBH-04-0003	
20.00	Perform Self Load Test and Record Parameters per procedure DXBH-04-0028	
30.00	Inspect Electrical Cabinet Doors (With Latches) per procedure DXBH-06-0001	
40.00	Radio Operational Check per procedure DXBH-08-0002	
45.00	Radio Wattage Test per procedure DXBH-08-0003	
50.00	Check Throttle and Reverser Lock for Proper Operation per procedure DXBH-19-0006	
60.00	Inspect Event Recorder Light. per procedure DXBH-12-0001	
70.00	Download Event Recorder History per procedure DXBH-11-0010	
80.00	CAB Recorder Download per procedure DXBH-11-0007	
90.00	HEP Operational Test per procedure DXBH-04-0011	
100.00	Check H.E.P. Line Voltage and Perform Load Test. Verify Operation of HVAC, Heaters, and Refrigerator per procedure DXBH-04-0005	
105.00	Power Test per procedure DXBH-09-0004	
110.00	Automatic CAB Self Test per procedure DXBH-15-0009	
120.00	Check Electrical Equipment Control Air Pressure per procedure DXBH-04-0004	
130.00	Propulsion Rectifier Panel Inspection per procedure DXBH-04-0017	
140.00	Inspect and Test Onboard Hot Box Detection System per procedure DXBH-12-0002	
150.00	Check Emergency Shutdown Devices per procedure DXBH-19-0007	
160.00	Test Interior and Exterior Lighting per procedure DXBH-05-0001	
180.00	Inspect Cab Signal Bars and Perform Self Test per procedure DXBH-11-0005	
190.00	Trainline, Cables and Receptacle Inspection per procedure DXBH-04-0001	
200.00	Record all defects MAP-9	

Job # 3 INBOUND: P32 92D MECHANICAL INSPECTION

Signature(s):	Date:	√
		Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBHQMEINB - P32 92D MECH INBOUND INSP

10.00	Alerter Test per procedure DXBH-12-0012.	
20.00	Main and Control Air Reservoir Leakage Test, and Safety Valve Test per procedure DXBH-21-0006.	
30.00	Operating Cab Inspection per procedure DXBH-15-0001	

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TASK # 2 SPOT #5-1: INBOUND INSPECTION

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 3 INBOUND: P32 92D MECHANICAL INSPECTION

Signature(s):	Date:	√ Initial/Signature/ Check

Foreman Signetures required only once for each job.

40.00	Check Operation of Sanding System per procedure DXBH-01-0004	
50.00	Inspect All Safety Appliances per procedure DXBH-01-0002	
60.00	Air Dryer System Check per procedure DXBH-21-0002	
70.00	Inspect and Test Salem Air Dryer per procedure DXBH-21-0013	
80.00	Test Air Brake Cut Out Cock Handles for Proper Locking per procedure DXBH-10-0004	
90.00	Inspect Snyder II Fuel System, Fuel Tank, Level Indicators, and Ecology Tank per procedure DXBH-18-0002	
100.00	Inspect Carbody Screens per procedure DXBH-01-0007	
110.00	Inspect Running Gear per procedure DXBH-02-0001	
120.00	Perform Sequential Fuel System Test (Pop Test) per procedure DXBH-19-0008	
130.00	Check Cooling Water Level per procedure DXBH-23-0001	
140.00	Check Main Engine Oil Level per procedure DXBH-19-0002	
150.00	Main machinery Space Vibration and Noise Check per procedure DXBH-19-0004.	
160.00	Check for Fuel, Oil, Water and Exhaust Leaks per procedure DXBH-19-0003	
170.00	Check Air Compressor Oil Level per procedure DXBH-21-0001	
180.00	Clean Cooling Radiators With Compressed Air per procedure DXBH-23-0003	
200.00	REVIEW ATTACHED OIL ANALYSIS HISTORY REPORT; NOTIFY SUPERVISOR OF ANY ABNORMAL OR CRITICAL RESULTS.	
220.00	"Record any defects on MAP-9 and attach to this work order. Doocument in WMS all failure modes and unacceptable conditions identified."	

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TASK # 3 FUELHOUSE: FUELHOUSE SERVICING

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 FUEL HSE: P32 OIL SAMPLES & DRAIN ECO TANK

Signature(s):	Date:	√ Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBHOILSMPL - P32 15D OIL SMPL DRAIN ECO TNK

10.00	Main Engine Oil Sample per procedure DXBH-19-0005	
20.00	Take Air Compressor Oil Sample per procedure DXBH-21-0005	
30.00	Drain Ecology Tank per procedure DXBH-13-0001	
40.00	QUALITY CHECKPOINT: ENSURE OIL SAMPLES ARE SUBMITTED TO SUPERVISOR ENSURE OIL LEVEL AND COOLING WATER LEVEL IS SUFFICIENT	

Job # 2 P32 DAILY CLEAN, FUEL & SAND

Signature(s):	Date:	√ Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBHDLAFUEL - P32 DAILY CLEAN, FUEL, SAND

10.00	CHECK FUEL LEVEL, BRING TO FULL MARK.	
20.00	Check Sand Level per procedure DXBH-01-0005	
30.00	SUPPLY TOOLBOX WITH HAMMER, WRENCH, CHISEL, 1 MAIN RESERVOIR HOSE, 2 BRAKE PIPE HOSES AND GLAD HAND SEALS. SUPPLY SPARE FUSEES, HEP AND M.U. CABLES, AND HEADLIGHT LAMPS AS NECESSARY.	
40.00	CLEAN ENGINE ROOM AND WALKWAYS OF DIRT, OIL OR DEBRIS. ENSURE THAT PASSAGEWAYS, FLOORS AND COMPARTMENTS ARE FREE OF TRIPPING HAZARDS.	
50.00	CLEAN THE TOILET AND TOILET AREA, REMOVE ALL TRASH.	
60.00	Dump and Recharge Toilet per procedure DXBH-13-0002	
70.00	CLEAN AND SUPPLY CAB REFRIGERATOR WITH WATER. SUPPLY CAB WITH 6 CREW KITS AND ONE LARGE GARBAGE BAG. ENSUE AMPLE SUPPLY OF TOILET PAPER.	
80.00	CLEAN & WASH THE CAB AREA: WASH CAB CONSOLE & DASH. EMPTY ASH TRAYS. CLEAN WINDSHIELD, WINDOWS & MIRRORS. CLEAN AND MOP CAB FLOOR IF NECESSARY. REMOVE ALL TRASH .	
90.00	RECORD ANY DEFECTS ON MAP-9.	
100.00	QUALITY CHECKPOINT: ENSURE MR AIR TANKS ARE DRAINED...	

Note - If you have any questions or concerns regarding the contents of this Work Order, please contact the Fleet Manager: Mike Scaringe ATS 825-0230

TASK # 4 SPOT #5-3: TOP & BOTTOM INSPECTION

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 P32 92D ELECTRICAL TOP & PIT INSPECTION

Signature(s):	Date:	√
		Initial/Signature/ Check

Foremen Signatures required only once for each job.

Procedure:

DXBHQELTOPBOT - P32 92D ELECT. INSP

20.00	Check Electric and Pneumatic Switch Gear and Control Equipment per procedure DXBH-04-0016	
40.00	Renew HVAC Filters per procedure DXBH-07-0005	
50.00	Inspect Slip Ring Brushes per procedure DXBH-04-0022	
60.00	Inspect Support Bearing and Speed Sensors per procedure DXBH-12-0003	
70.00	Traction Motor Inspection per procedure DXBH-09-0012	
80.00	VERIFY TRACTION MOTOR SERIAL NUMBERS; MOTORS WITH SERIAL NUMBERS OLDER THAN 54 MONTHS NEED TO BE REPLACED. RECORD SERIAL NUMBERS ON MAP-9 FORM AND UPDATE/VERIFY RECORD IN WMS.	
90.00	"Record any defects on MAP-9 and attach to this work order. Doocument in WMS all failure modes and unacceptable conditions identified."	

Job # 2 P32 92D MECHANICAL TOP & PIT INSPECTION

Signature(s):	Date:	√
		Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBHQMETOPBOT - P32 92D MECH INSP

10.00	Install New Fuel Filters and Prime Fuel System per procedure DXBH-18-0004	
20.00	Install New Engine Air Intake Baggy Filters per procedure DXBH-19-0010	
30.00	Inspect Crankcase Breather Pipe (Eductor Tube) per procedure DXBH-19-0014	
35.00	Check Governor Oil Level and Bring to Full Mark per procedure DXBH-19-0001	
40.00	Ensure Winter-Summer Air Intake Door is Properly Positioned per procedure DXBH-09-0001	
50.00	CLEAN ENGINE ROOM & AIR-COMPRESSOR ROOM WALKWAYS OF DIRT, OIL OR DEBRIS.	
60.00	Replace Air Compressor Intake Filters per procedure DXBH-21-0015	
70.00	Inspect Axle Alternator per procedure DXBH-02-0006	
80.00	Inspect Traction Motor Gear Case Oil Level per procedure DXBH-09-0017	
85.00	Quarterly Draft Gear Inspection per procedure DXBH-03-0005	
90.00	Inspect Brake Shoes per procedure DXBH-10-0003	
100.00	Fuel Tank Inspection per procedure DXBH-01-0010	
110.00	Remove and clean any debris collected between the top of the retention tank and cable tray.	
120.00	Record any defects on MAP-9 and attach to this work order. Doocument in WMS all failure modes and unacceptable conditions identified.	

Note - If you have any questions or concerns regarding the contents of this Work Order, please contact the Fleet Manager: Mike Scaringe ATS 825-0230

TASK # 5 SPOT #5-2: GAGE, SERVICE & WASH

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 P32 92D ELECTRICAL SERVICE

Signature(s):	Date:	√
		Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBHQELSERV - P32 92D ELECT. SERVICE

10.00	Battery inspection and specific gravity check. per procedure DXBH-04-0010	
20.00	Inspect, Clean and Fill Batteries per procedure DXBH-04-0009	
30.00	VERIFY AEI TAG MATCHES UNIT #, USE AEI READER. CHECK BOTH SIDES	

Job # 2 P32 92D GAUGE, MECH SERVICE & WASH

Signature(s):	Date:	√
		Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBHQMESERV - P32 92D MECH SERVICE

30.00	Drain and Clean Fuel Filter Tank per procedure DXBH-18-0003	
40.00	Remove Baggy Filters and Inspect Engine Air Intake Hatch per procedure DXBH-19-0009	
50.00	Drain Condensate from Compressor Intercooler, Aftercooler, and Final Filters per procedure DXBH-21-0004	
60.00	Renew Control Compartment Canister Air Filters, Four Each per procedure DXBH-01-0006	
70.00	Inspect and Clean Equipment Spin Filters per procedure DXBH-09-0009	
80.00	If this 92 day PM is being performed with a 184 or 368 day PM, see the work order(s) for additional tasks at this spot.	
90.00	PRESSURE WASH EXTERIOR FRONT & REAR OF LOCOMOTIVE. PRESSURE WASH THE TRUCKS.	

Note - If you have any questions or concerns regarding the contents of this Work Order, please contact the Fleet Manager: Mike Scaringe ATS 825-0230

TASK # 6 SPOT #5-4: OUTBOUND THE LOCOMOTIVE

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 P32 92D OUTBOUND TESTING

Signature(s):	Date:	√
		Initial/Signature/ Check

Foremen Signatures required only once for each job.

Procedure:

DXBHQOUTB - P32 92D OUTBOUND TEST

10.00	Record OUTBOUND Test Readings.	
20.00	Qualcomm System Test per procedure DXBH-08-0001	
30.00	Cut-Out Valve Seal Inspecdtion per procedure DXBH-10-0008	
40.00	Locomotive Daily Air Brake Departure Test per procedure DXBH-10-0001	
50.00	APPLY NEW MAP 101 CARD.	
60.00	Record any defects on MAP-9 and attach to this work order. Doocument in WMS all failure modes and unacceptable conditions identified.	
70.00	"QUALITY CHECKPOINT: VERIFY THAT THE RECORDED OUTBOUND READINGS ARE WITHIN THE SPECIFIED/ACCEPTABLE RANGE OF VALUES. IF READINGS ARE NOT WITHIN SPECIFICATIONS, TAKE PROPER CORRECTIVE ACTION ."	

Note - If you have any questions or concerns regarding the contents of this Work Order, please contact the Fleet Manager: Mike Scaringe ATS 825-0230

TASK # 7 SUPERVISOR TASK

Task RESCEN:	Task FIS Loc:	Task Function:	Task Work Element:		Task Status By:	Facility:	Task Status Date:	Task Status:
4671	5114	1863	500		SIMP3519	CSX	08/04/2010	Closed

Job # 1 P32 92D PM DISPATCH

Signature(s):	Date:	√
		Initial/Signature/ Check

Foreman Signatures required only once for each job.

Procedure:

DXBDQSUP - P32/P42 92D PM DISPATCH

10.00	ENSURE THAT ALL PM WORK ORDERS ARE CLOSED ON THE SAME DATE AS WRITTEN ON THE UNIT'S BLUE FORM (MAP 816).	
20.00	MAKE SURE ALL DEFECTS HAVE BEEN RECORDED ON MAP-9 FORM THEN DISPOSITIONED AND SIGNED OFF WHEN COMPLETED. ATTACH THE MAP-9 FORMS. OUTBOUND THE LOCOMOTIVE OR SEND TO TRACK 9 IF FURTHER REPAIRS ARE NEEDED.	
30.00	ENSURE ALL DEFECTS ARE TO BE RECORDED ON THE MAP-9 FORM THEN DISPOSITIONED AND SIGNED OFF WHEN COMPLETED. ATTACH THE MAP-9 FORMS. OUTBOUND THE LOCOMOTIVE OR SEND TO TRACK 9 IF FURTHER REPAIRS ARE NEEDED.	
40.00	GENERAL FOREMAN:_____ DATE:_____	

Note - If you have any questions or concerns regarding the contents of this Work Order, please contact the Fleet Manager: ***Mike Scaringe ATS 825-0230***

Non-Serial Components

1 / Part / 2656886562 / Truck/WheelSet/Suspension / Wheelset, Loco W/O Disc / TOO SMALL TO TRU
4 / Part / 2656886562 / Truck/WheelSet/Suspension / Wheelset, Loco W/O Disc / FINISHED RIM SIZE 2
2 / Part / 2656886562 / Truck/WheelSet/Suspension / Wheelset, Loco W/O Disc / TOO SMALL TO TRU
3 / Part / 2656886562 / Truck/WheelSet/Suspension / Wheelset, Loco W/O Disc / FINISHED RIM SIZE 2

Serial Components

AMT4587 - z - Component / z-TM Combo / Part / 2656884002 / Truck/WheelSet/Suspension / Traction Motor Combo / 10B97051092 /
AMT3593 - z - Component / z-TM Combo / Part / 2656884002 / Truck/WheelSet/Suspension / Traction Motor Combo / 08B93100565 / TM Combo #3
AMT2382 - z - Component / z-TM Combo / Part / 2656884002 / Truck/WheelSet/Suspension / Traction Motor Combo / 08C99010044 / TM Combo #4
AMT3709 - z - Component / z-TM Combo / Part / 2656884002 / Truck/WheelSet/Suspension / Traction Motor Combo / 10F96061166 / TM Combo #2

There are no Work Order Notes.

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